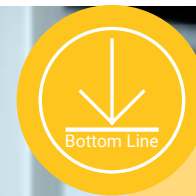


IN-DUCT HEPA FILTER

High efficiency particulate air filters, or HEPA filters, intercept and diffuse particulates through an extended surface configuration of deep space fold of sub-micrometer glass fiber paper.



In-duct HEPA filters are an effective way to improve indoor air quality *if* your HVAC system can accommodate them. In-duct HEPA filters, while more effective than MERV filters, they are larger and have a higher pressure drop.



+ 0.67 kWh/sqft



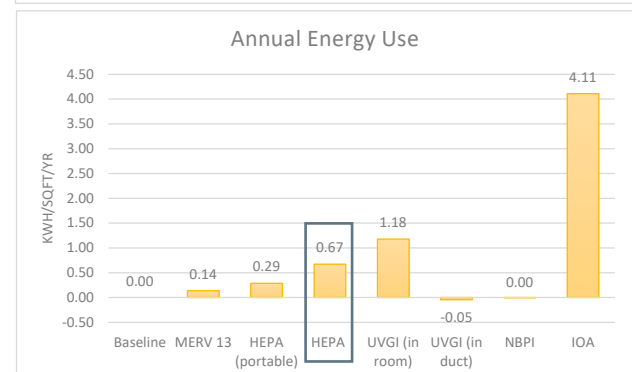
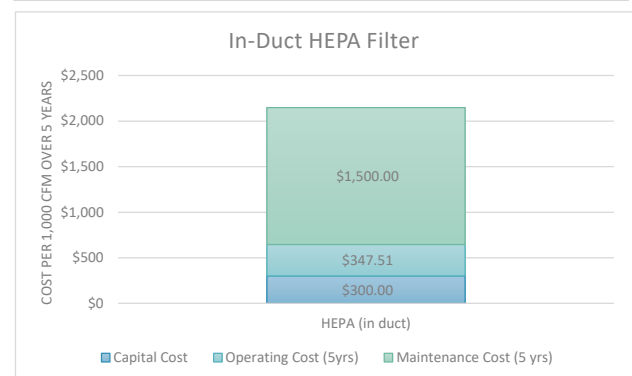
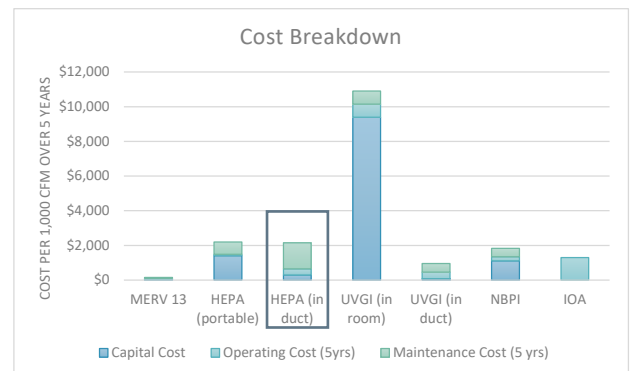
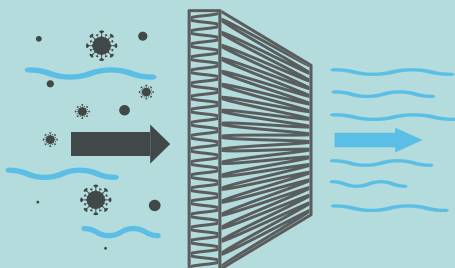
+ \$69.50 /1,000cfm



A well-sealed HEPA filter is more than 99.9% efficient for all sizes of particles [1].

DESIGN GUIDELINES

- Must be sealed properly in filter racks.
- HVAC systems should be designed for HEPA filters. Retrofits are not recommended.
- Recommended duct velocity of 250 to 500 fpm [2].
- Best when used with a pre-filter to not overload the HEPA filter.
- Replace filters regularly according to manufacturer's recommendation.



1. Owen, Kathleen, and Carolyn G. Kerr. "Debunking Myths About MERV Air Filtration." ASHRAE Journal Newsletter, 8 Dec. 2020.
 2. ASHRAE. "Filtration and Air Cleaning Summary." ASHRAE, 25 May 2021, COVID-19@ashrae.org. Accessed 10 Sept. 2021.
 3. ASHRAE. "ASHRAE Epidemic Task Force" Core Recommendations for Reducing Airborne Infectious Aerosol Exposure, 2021, Accessed 2021.
 4. ASHRAE Handbook-HVAC Systems and Equipment, 2016, pp. 29.2-29.12.